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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/939,754

DATE: 11/27/2001
 TIME: 12:57:42

Input Set : N:\Crf3\RULE60\09939754.txt
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3 <110> APPLICANT: McTIGUE, MICHELE A.
 4 WICKERSHAM, JOHN A.
 5 PINKO, CHRIS
 6 SHOWALTER, RICHARD
 7 PARAST, CAMRAN V.
 8 TEMPCYZK-RUSSEL, ANNA
 9 GEHRING, MICHAEL R.
 10 MROCZKOWSKI, BARBARA
 11 KAN, CHEN-CHEN
 12 VILLAFRANCA, J. ERNEST
 13 APPELT, KRZYSZTOF
 15 <120> TITLE OF INVENTION: MODIFICATIONS OF THE VEGF RECEPTOR-2 PROTEIN AND
 16 METHODS OF USE
 18 <130> FILE REFERENCE: 0125-0016US
 20 <140> CURRENT APPLICATION NUMBER: 09/939,754
 21 <141> CURRENT FILING DATE: 2001-08-28
 23 <150> PRIOR APPLICATION NUMBER: 09/390,326
 24 <151> PRIOR FILING DATE: 1999-09-07
 26 <160> NUMBER OF SEQ ID NOS: 12
 28 <170> SOFTWARE: PatentIn Ver. 2.0
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 31
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Homo sapiens
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 47 <211> LENGTH: 33
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 49 <213> ORGANISM: Homo sapiens
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 55 <211> LENGTH: 38
 56 <212> TYPE: DNA
 57 <213> ORGANISM: Homo sapiens
 59 <400> SEQUENCE: 4
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 63 <210> SEQ ID NO: 5
 64 <211> LENGTH: 317
 65 <212> TYPE: PRT

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 70 1 5 10 15
 72 Tyr Asp Ala Ser Lys Trp Glu Phe Pro Arg Asp Arg Leu Lys Leu Gly
 73 20 25 30
 75 Lys Pro Leu Gly Arg Gly Ala Phe Gly Gln Val Ile Glu Ala Asp Ala
 76 35 40 45
 78 Phe Gly Ile Asp Lys Thr Ala Thr Cys Arg Thr Val Ala Val Lys Met
 79 50 55 60
 81 Leu Lys Glu Gly Ala Thr His Ser Glu His Arg Ala Leu Met Ser Glu
 82 65 70 75 80
 84 Leu Lys Ile Leu Ile His Ile Gly His His Leu Asn Val Val Asn Leu
 85 85 90 95
 87 Leu Gly Ala Cys Thr Lys Pro Gly Gly Pro Leu Met Val Ile Val Glu
 88 100 105 110
 90 Phe Cys Lys Phe Gly Asn Leu Ser Thr Tyr Leu Arg Ser Lys Arg Asn
 91 115 120 125
 93 Glu Phe Val Pro Tyr Lys Glu Ala Pro Glu Asp Leu Tyr Lys Asp Phe
 94 130 135 140
 96 Leu Thr Leu Glu His Leu Leu Ile Cys Tyr Ser Phe Gln Val Ala Lys
 97 145 150 155 160
 99 Gly Met Glu Phe Leu Ala Ser Arg Lys Cys Ile His Arg Asp Leu Ala
 100 165 170 175
 102 Ala Arg Asn Ile Leu Leu Ser Glu Lys Asn Val Val Lys Ile Cys Asp
 103 180 185 190
 105 Phe Gly Leu Ala Arg Asp Ile Tyr Lys Asp Pro Asp Tyr Val Arg Lys
 106 195 200 205
 108 Gly Asp Ala Arg Leu Pro Leu Lys Trp Met Ala Pro Glu Thr Ile Phe
 109 210 215 220
 111 Asp Arg Val Tyr Thr Ile Gln Ser Asp Val Trp Ser Phe Gly Val Leu
 112 225 230 235 240
 114 Leu Trp Glu Ile Phe Ser Leu Gly Ala Ser Pro Tyr Pro Gly Val Lys
 115 245 250 255
 117 Ile Asp Glu Glu Phe Cys Arg Arg Leu Lys Glu Gly Thr Arg Met Arg
 118 260 265 270
 120 Ala Pro Asp Tyr Thr Pro Glu Met Tyr Gln Thr Met Leu Asp Cys
 121 275 280 285
 123 Trp His Gly Glu Pro Ser Gln Arg Pro Thr Phe Ser Glu Leu Val Glu
 124 290 295 300
 126 His Leu Gly Asn Leu Leu Gln Ala Asn Ala Gln Gln Asp
 127 305 310 315
 131 <210> SEQ ID NO: 6
 132 <211> LENGTH: 386
 133 <212> TYPE: PRT
 134 <213> ORGANISM: E. coli
 136 <400> SEQUENCE: 6
 137 Asp Pro Met Gln Leu Pro Tyr Asp Ser Arg Trp Glu Phe Pro Arg Asp
 138 1 5 10 15

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140 Gly Leu Val Leu Gly Arg Val Leu Gly Ser Gly Ala Phe Gly Lys Val
 141 20 25 30
 143 Val Glu Gly Thr Ala Tyr Gly Leu Ser Arg Ser Gln Pro Val Met Lys
 144 35 40 45
 146 Val Ala Val Lys Met Leu Lys Pro Thr Ala Arg Ser Ser Glu Lys Gln
 147 50 55 60
 149 Ala Leu Met Ser Glu Leu Lys Ile Met Thr His Leu Gly Pro His Leu
 150 65 70 75 80
 152 Asn Ile Val Asn Leu Leu Gly Ala Cys Thr Lys Ser Gly Pro Ile Tyr
 153 85 90 95
 155 Ile Ile Thr Glu Tyr Cys Phe Tyr Gly Asp Leu Val Asn Tyr Leu His
 156 100 105 110
 158 Lys Asn Arg Asp Ser Phe Leu Ser His His Pro Glu Lys Pro Lys Lys
 159 115 120 125
 161 Glu Leu Asp Ile Phe Gly Leu Asn Pro Ala Asp Glu Ser Thr Arg Ser
 162 130 135 140
 164 Tyr Val Ile Leu Ser Phe Glu Asn Asn Gly Asp Tyr Met Asp Met Lys
 165 145 150 155 160
 167 Gln Ala Asp Thr Thr Gln Tyr Val Pro Met Leu Glu Arg Lys Glu Val
 168 165 170 175
 170 Ser Lys Tyr Ser Asp Ile Gln Arg Ser Leu Tyr Asp Arg Pro Ala Ser
 171 180 185 190
 173 Tyr Lys Lys Lys Ser Met Leu Asp Ser Glu Val Lys Asn Leu Leu Ser
 174 195 200 205
 176 Asp Asp Asn Ser Glu Gly Leu Thr Leu Leu Asp Leu Leu Ser Phe Thr
 177 210 215 220
 179 Tyr Gln Val Ala Arg Gly Met Glu Phe Leu Ala Ser Lys Asn Cys Val
 180 225 230 235 240
 182 His Arg Asp Leu Ala Ala Arg Asn Val Leu Leu Ala Gln Gly Lys Ile
 183 245 250 255
 185 Val Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Met His Asp Ser
 186 260 265 270
 188 Asn Tyr Val Ser Lys Gly Ser Thr Phe Leu Pro Val Lys Trp Met Ala
 189 275 280 285
 191 Pro Glu Ser Ile Phe Asp Asn Leu Tyr Thr Leu Ser Asp Val Trp
 192 290 295 300
 194 Ser Tyr Gly Ile Leu Leu Trp Glu Ile Phe Ser Leu Gly Gly Thr Pro
 195 305 310 315 320
 197 Tyr Pro Gly Met Met Val Asp Ser Thr Phe Tyr Asn Lys Ile Lys Ser
 198 325 330 335
 200 Gly Tyr Arg Met Ala Lys Pro Asp His Ala Thr Ser Glu Val Tyr Glu
 201 340 345 350
 203 Ile Met Val Lys Cys Trp Asn Ser Glu Pro Glu Lys Arg Pro Ser Phe
 204 355 360 365
 206 Tyr His Leu Ser Glu Ile Val Glu Asn Leu Leu Pro Gly Gln Tyr Lys
 207 370 375 380
 209 Lys Ser
 210 385
 213 <210> SEQ ID NO: 7

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Input Set : N:\Crf3\RULE60\09939754.txt
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214 <211> LENGTH: 310
 215 <212> TYPE: PRT
 216 <213> ORGANISM: Homo sapiens
 218 <400> SEQUENCE: 7
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 220 Glu Leu Pro Arg Asp Arg Leu Val Leu Gly Lys Pro Leu Gly Glu Gly
 20 25 30
 222 Cys Phe Gly Gln Val Val Leu Ala Glu Ala Ile Gly Leu Asp Lys Asp
 35 40 45
 225 Lys Pro Asn Arg Val Thr Lys Val Ala Val Lys Met Leu Lys Ser Asp
 50 55 60
 228 Ala Thr Glu Lys Asp Leu Ser Asp Leu Ile Ser Glu Met Glu Met Met
 65 70 75 80
 231 Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys
 85 90 95
 234 Thr Gln Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly
 100 105 110
 237 Asn Leu Arg Glu Tyr Leu Gln Ala Arg Arg Pro Pro Gly Leu Glu Tyr
 115 120 125
 240 Cys Tyr Asn Pro Ser His Asn Pro Glu Glu Gln Leu Ser Ser Lys Asp
 130 135 140
 243 Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala
 145 150 155 160
 246 Ser Lys Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val
 165 170 175
 249 Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp
 180 185 190
 252 Ile His His Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro
 195 200 205
 255 Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Ile Tyr Thr His
 210 215 220
 258 Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Thr
 225 230 235 240
 261 Leu Gly Gly Ser Pro Tyr Pro Gly Val Pro Val Glu Glu Leu Phe Lys
 245 250 255
 264 Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ser Asn Cys Thr Asn
 260 265 270
 267 Glu Leu Tyr Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln
 275 280 285
 270 Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Val Ala
 290 295 300
 273 Leu Thr Ser Asn Gln Glu
 305 310
 276 <210> SEQ ID NO: 8
 277 <211> LENGTH: 297
 278 <212> TYPE: PRT
 279 <213> ORGANISM: Homo sapiens
 280 <400> SEQUENCE: 8

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286 Val Phe Pro Cys Ser Val Tyr Val Pro Asp Glu Trp Glu Val Ser Arg
 287 1 5 10 15
 289 Glu Lys Ile Thr Leu Leu Arg Glu Leu Gly Gln Gly Ser Phe Gly Met
 290 20 25 30
 292 Val Tyr Glu Gly Asn Ala Arg Asp Ile Ile Lys Gly Glu Ala Glu Thr
 293 35 40 45
 295 Arg Val Ala Val Lys Thr Val Asn Glu Ser Ala Ser Leu Arg Glu Arg
 296 50 55 60
 298 Ile Glu Phe Leu Asn Glu Ala Ser Val Met Lys Gly Phe Thr Cys His
 299 65 70 75 80
 301 His Val Val Arg Leu Leu Gly Val Val Ser Lys Gly Gln Pro Thr Leu
 302 85 90 95
 304 Val Val Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg
 305 100 105 110
 307 Ser Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr
 308 115 120 125
 310 Leu Gln Glu Met Ile Gln Met Ala Ala Glu Ile Ala Asp Gly Met Ala
 311 130 135 140
 313 Tyr Leu Asn Ala Lys Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn
 314 145 150 155 160
 316 Cys Met Val Ala His Asp Phe Thr Val Lys Ile Gly Asp Phe Gly Met
 317 165 170 175
 319 Thr Arg Asp Ile Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly Lys Gly
 320 180 185 190
 322 Leu Leu Pro Val Arg Trp Met Ala Pro Glu Ser Leu Lys Asp Gly Val
 323 195 200 205
 325 Phe Thr Thr Ser Ser Asp Met Trp Ser Phe Gly Val Val Leu Trp Glu
 326 210 215 220
 328 Ile Thr Ser Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn Glu Gln
 329 225 230 235 240
 331 Val Leu Lys Phe Val Met Asp Gly Gly Tyr Leu Asp Gln Pro Asp Asn
 332 245 250 255
 334 Cys Pro Glu Arg Val Thr Asp Leu Met Arg Met Cys Trp Gln Phe Asn
 335 260 265 270
 337 Pro Asn Met Arg Pro Thr Phe Leu Glu Ile Val Asn Leu Leu Lys Asp
 338 275 280 285
 340 Asp Leu His Pro Ser Phe Pro Glu Val
 341 290 295
 344 <210> SEQ ID NO: 9
 345 <211> LENGTH: 367
 346 <212> TYPE: PRT
 347 <213> ORGANISM: Homo sapiens
 349 <400> SEQUENCE: 9
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 353 Tyr Asp Ala Ser Lys Trp Glu Phe Ala Arg Glu Arg Leu Lys Leu Gly
 354 20 25 30
 356 Lys Ser Leu Gly Arg Gly Ala Phe Gly Lys Val Val Gln Ala Ser Ala
 357 35 40 45

VERIFICATION SUMMARY

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